

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>			
			Application Number	09/110,678		
			Filing Date	7/7/1998		
			First Named Inventor	Mills		
			Group Art Unit	1745		
			Examiner Name	Kalafut		
Sheet	1	of	358		Attorney Docket Number	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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## 09-2002

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			Application Number	09/110,678	
			Filing Date	7/7/1998	
			First Named Inventor	Mills	
			Group Art Unit	1745	
			Examiner Name	Kalafut	
Sheet	31	Of	358	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
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		12. Mills et al., "Formation of a Hydrogen Plasma from an Incandescently Heated Hydrogen-Catalyst Gas Mixture with an Anomalous Afterglow Duration," Int. J. Hydrogen Energy, Vol. 26, No. 7, July, (2001), pp. 749-762. (Internet Publication Date: June 28, 2000.)		
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/SK/		Mills, "Author's response 'A possible trick of Hydride atom'," <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, p. 1225. (no month)	
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		<del>Mills, "The Grand Unified Theory of Classical Quantum Mechanics," pp. 43-44, BlackLight Power, Inc., pp. 433-440, 2001.</del>	
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PTO/SB/08A (Modified)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Complete if Known</b>	
	Application Number	09/110,678
	Filing Date	July 7, 1998
	First Named Inventor	Mills
	Group Art Unit	<del>Unassigned</del> 1745
	Examiner Name	<del>Unassigned</del> Kalafut
Sheet 36 of 58	Attorney Docket Number	62-226-8AC

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
		Number	Kind Code* (if known)			
/SK/		1,001,589		Hatfield	08-23-1911	
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/SK/		4,512,966		Nelson	04-23-1985	

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			First Named Inventor	Mills	
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			Examiner Name	<del>Unknown</del> Kalafut	
Sheet	38	of	58	Attorney Docket Number	62-226-8AC

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		Office <sup>2</sup>	Number <sup>3</sup>	Kind Code <sup>5</sup> (if known)				
/SK/		WO	90/10935	A1	Pons	09-20-1990		
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		First Named Inventor	Mills		
		Group Art Unit	<del>Unknown</del> 1745		
Examiner Name	<del>Unknown</del> Kalafut				
Sheet	42	of	58	Attorney Docket Number	62-226-8AC

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Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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		Group Art Unit <sup>1</sup>	<del>Unknown</del> 1745
		Examiner Name	<del>Unknown</del> Kalafut
Sheet <del>8</del> 43 of <del>44</del> 58	Attorney Docket Number		62-226-8AC

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Examiner Name	<del>Unknown</del> Kalafut				
Sheet	<del>44</del> 46	of	<del>44</del> 58	Attorney Docket Number	62-226-8AC

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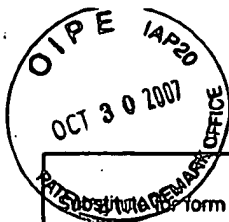
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		<del>"Italy Cold Fusion &amp; Judge's Verdict" (1996), pp. 1-3, available at</del> <del><a href="http://www.padrak.com/ine/CFLIBEL.html">http://www.padrak.com/ine/CFLIBEL.html</a></del> (cited on page 16 as "Rothwell")	
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PTO/SB/08B (Modified)

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	Filing Date	7/798
	First Named Inventor	Mills
	Group Art Unit	<del>1754</del> 1745
	Examiner Name	<del>Langer</del> Kalafut
Sheet <del>4</del> 50 of <del>8</del> 58	Attorney Docket Number	

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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/SK/		R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted (no date)	
/SK/		R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted (no date)	
/SK/		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted. (no date)	
/SK/		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted. (no date)	
/SK/		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen", Chem. Phys. Letts., submitted. (no date)	
/SK/		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted. (no date)	
/SK/		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion", Spectrochimica Acta, Part A, submitted. (no date)	
/SK/		R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, in press. (no date)	

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	09/110,678
		Filing Date	7/798
		First Named Inventor	Mills
		Group Art Unit	<del>1751</del> 1745
Examiner Name	<del>Longel</del> Kalafut		
Sheet <del>2</del> 52	of <del>2</del> 58	Attorney Docket Number	

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/SK/		R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press.	
/SK/		R. Mills, P. Ray, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion", Int. J. Hydrogen Energy, in press.	
/SK/		R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322.	
/SK/		R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192.	
/SK/		R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, <i>Hydrogen: The Common Thread</i> , The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671-697.	
		<del>Keith Keefer, Ph.D., "Interim Report on BlackLight Power Technology: Its Apparent Scientific Basis, State of Development and Suitability for Commercialization by Liebert Corporation."</del> (also cited on page 13)	
		<del>R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2001),</del> Distributed by Amazon.Com. (also cited on page 33)	

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(All cites on pages 50-52 are of record in parent case. Cross-outs indicate duplicate cite.)

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				Application Number	09/110,678
				Filing Date	July 7, 1998
				First Named Inventor	Mills
				Group Art Unit	<del>1754</del> 1745
				Examiner Name	<del>Langer</del> Kalafut
				Attorney Docket Number	62-226-8AC
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		Application Number	09/110,678
		Filing Date	July 7, 1998
		First Named Inventor	Mills
		Group Art Unit	<del>1754</del> 1745
		Examiner Name	<del>Langel</del> Kalafut
Sheet <u>1</u> 54 of <u>8</u> 58	Attorney Docket Number 62-226-8AC		

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		<del>Radovanov, et. al. "Ion Kinetic Energy Distributions and Balmer-<math>\alpha</math> Excitation in Ar-<math>H^2</math> Radio-Frequency Discharges" J. Appl. Phys. Vol. 78, No. 2, pp. 746-756, July 1995.</del>	
		<del>Thorne, et. al., "Recombination during the Electrolysis of Light Water in 0.6 M <math>K_2CO_3</math> Can it Account for the Reports of Excess Heat?" Departments of Physics and Chemistry, Brigham Young University, June 1993. (also cited on page 17)</del>	
		<del>Fujimoto, et. al., "Ratio of Balmer line intensities resulting from dissociative excitation of molecular hydrogen in an ionizing plasma." J. Appl. Phys. Vol. 66, No. 6, pp. 2315-2319, Sept. 1989.</del>	
		<del>Hollander, et. al. "Vacuum ultraviolet emission from microwave plasmas of hydrogen and its mixtures with helium and oxygen." J. Vac. Sci. Technol. A42 (3), pp. 870-882, May/June 1994.</del>	
		<del>Kuraica, et. al., "Line Shapes of Atomic Hydrogen in a Plane Cathode abnormal glow discharge." Physical Review A, Vol. 46, No. 7, pp. 4429-4432, October 1992.</del>	
		<del>Moultenbrooks, et. al., "The argon-hydrogen expanding plasma model and experiments." Plasma Sources Sci Technol. Vol 4, pp. 74-85, 1995.</del>	
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		<del>Neynaber, et. al. "Formation of HeH<sup>+</sup> from Low-Energy Collisions of Metastable Helium and Molecular Hydrogen" Journal of Chemical Physics, Vol. 57, No. 12, pp. 5128-5137, 1972.</del>	
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		Application Number	09/110,678
		Filing Date	July 7, 1998
		First Named Inventor	Mills
		Group Art Unit	<del>4754</del> 1745
		Examiner Name	<del>Langel</del> Kalafut
Sheet <del>7</del> 55	of <del>8</del> 58	Attorney Docket Number	62-226-8AC

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		<del>Arfken, "Mathematical Methods for Physicists," Academic Press, 1970, pp. 143-145.</del>	
/SK/		Bush, "A Light Water Excess Heat Reaction Suggests That 'Cold Fusion' May Be 'Alkali-Hydrogen Fusion', Fusion Technology, Vol. 22, Sept. 1992, pp. 301-322	
		<del>Fine, Arthur, "The Shaky Game. Einstein Realism and the Quantum Theory," The University of Chicago Press, 1986, pp.64-85</del>	
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		<del>Hayashi, et. al. "<sup>1</sup>H NMR and magnetization measurements of a nanostructured composite material of the Mg,Ni-H system synthesized by reactive mechanical grinding." Journal of Alloys and Compounds, Vol. 256, 1997, pp. 159-165.</del>	
		<del>Hayashi, et. al., "Local structures and hydrogen dynamics in amorphous and nanostructured Mg-Ni-H systems as studied by <sup>1</sup>H and <sup>2</sup>H nuclear magnetic resonance."</del>	
		<del>Heisenberg, W. "Über den anschaulichen Inhalt der quantentheoretischen Kinematik und Mechanik." Zeitschrift für Physik, Vol. 43, 1927, pp. 172-198.</del>	
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(crossed out articles cited in paper no. 21)

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		Application Number	09/110,678				
		Filing Date	July 7, 1998				
		First Named Inventor	Mills				
		Group Art Unit	<del>4754</del> 1745				
Examiner Name	<del>Langer</del> Kalafut						
Sheet	11	56	of	18	58	Attorney Docket Number	62-226-8AC

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		<del>Kolos, et al., "Accurate Adiabatic Treatment of the Ground State of the Hydrogen Molecule" Journal of Chemical Physics, Vol 41, No 12, Dec 1964, pp. 3663-3673.</del>	
		<del>Kolos, et al., "Accurate Electronic Wave Functions for the H<sub>2</sub> Molecule" Reviews of Modern Physics, Vol 32, No 2, April 1960, pp. 219-232.</del>	
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		<del>Bonifacio, et al. "Spectrometry for a Ni/K<sub>2</sub>CO<sub>3</sub> Coll." AEC Research, June 1981. (also cited on page 8)</del>	

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		Application Number	09/110,678		
		Filing Date	July 7, 1998		
		First Named Inventor	Mills		
		Group Art Unit	<del>4754</del> 1745		
Examiner Name	<del>Langel</del> Kalafut				
Sheet	57	of	58	Attorney Docket Number	62-226-8AC

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		<del>Jacox, et. al. "INEL XPS Report." Idaho National Engineering Laboratory, EG &amp; G Idaho, Inc., Nov 1993.</del>	
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		First Named Inventor	Mills
		Group Art Unit	<del>1754</del> 1745
		Examiner Name	<del>Tanger</del> Kalafut
Sheet <del>5</del> 58	of <del>5</del> 58	Attorney Docket Number 62-226-8AC	

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/SK/		Kurtz, et. al. "Report on Calometric Investigations of Gas-Phase Catalyzed Hydrino Formation." Hydrocatalysis Power Corp. Report, December 1996.	
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		<del>Tolman, Richard C. "The Principles of Statistical Mechanics." California Institute of Technology, 1979, pp. 180-188.</del>	
		<del>Weisskopf, V.F. "Recent developments in the theory of the electron." Reviews of Modern Physics, Vol 21, No 2, 1949, pp. 305-315.</del> (also cited on page 17)	

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